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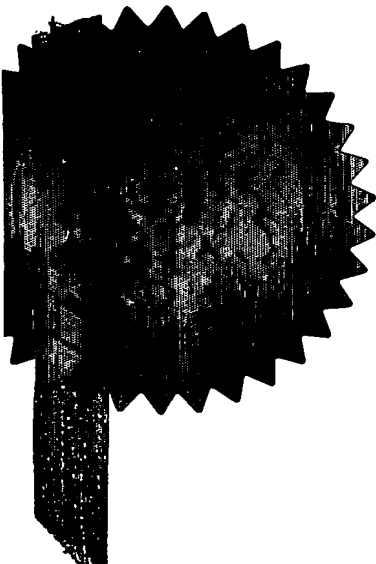
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1. Your reference	J00045429GB	10JUL03 E821466-1 D02829
2. Patent application number (The Patent Office will fill in this part)	0316096.7	P01/7700 0.00-0316096.7
3. Full name, address and postcode of the or of each applicant (underline all surnames)	Argo Interactive Ltd Oak House Shackleford Road, Elstead, Surrey, GU8 6LB United Kingdom	
Patents ADP number (if you know it)	07606734002	
If the applicant is a corporate body, give the country/state of its incorporation	United Kingdom	
4. Title of the invention	Method and Apparatus for Profiling Characteristics of Mobile Devices	
5. Name of your agent (if you have one)	RGC Jenkins & Co.	
"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)	26 Caxton Street London SW1H 0RJ United Kingdom	
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Claim(s) 67

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Abstract

Drawing(s) 848

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*R.G.C. Jenkins*

Date 9 July, 2003

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12. Name and daytime telephone number of person to contact in the United Kingdom

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METHOD AND APPARATUS FOR PROFILING CHARACTERISTICS OF  
MOBILE DEVICES

Field of Invention

5           This invention relates to a method and apparatus for profiling characteristics of mobile devices. In particular, the invention relates to compiling a database of the attributes of different mobile telephones, smartphones, Personal Digital Assistants (PDAs) and such like.

10           Background to the Invention

          Mobile telephones were originally intended to handle voice communication. However, for some time now they have also been able to support data communication. Initially, mobile telephones simply used appropriate modems to provide data communication links for portable  
15           computers to which they could be connected. However, more recently, a variety of data communication services have been developed by which mobile telephones create, store, display or use the data themselves.

          For example, most Global System for Mobile communication (GSM) networks now support a Short Messaging Service (SMS) facility that allows  
20           the transmission of short text messages between different mobile telephones or between mobile telephones and appropriate gateways connected to the network. Similarly, many GSM networks have started to support a

Multimedia Messaging Service (MMS) facility that effectively extends SMS to pictures and sounds.

Many GSM networks have also introduced data services using Wireless Application Protocol (WAP), which allows mobile telephones to  
5 retrieve data from remote servers via a WAP gateway connected to the network. Typically, the data retrieved using WAP comprises pages of Wireless Mark-up Language (WML) encoded data and WAP services are used to retrieve pages of WML encoded data from the internet in a way analogous to the retrieval of pages of Hyper-Text Mark-up Language  
10 (HTML) encoded data from the Web.

With the increased use of data communications, the ability of mobile telephones to support data communications and handle data is changing quickly. In particular, diversity in the characteristics and attributes of different mobile telephones associated with data handling is increasing. For  
15 example, different mobile telephones may have screens that are monochrome or colour and that vary widely in size, with the result that pictures are displayed differently on different telephones. Similarly, the range of symbols and characters that can be displayed by different mobile telephones may vary, with the result that text may not always be displayed as intended on a mobile  
20 telephone. Consequently, it can be difficult for network operators to be confident that users of all mobile telephones that operate in their networks are able to use the supported data services successfully. For example, providers of content for mobile telephone users, such as websites accessible by WAP,

cannot be certain that their content can be appropriately viewed on all mobile telephones.

In order to be confident that particular content can be displayed as intended or particular services can be used successfully by all mobile telephones and other mobile devices that might be used in a mobile communication network, it is therefore desirable to test the content or services on the mobile devices. However, as there are a large number of mobile devices available, this is time consuming and laborious. It has therefore been proposed to simulate the characteristics of different mobile devices using computer software. The applicants have developed and marketed one such computer program under the trade name Monitor Master<sup>TM</sup>. This allows content and services to be tested on many different mobile devices by simulating the characteristics of a number of mobile devices at once.

However, in order to simulate a mobile device it is first necessary to test and analyse the mobile devices' characteristics in detail. The applicants have recognised that, with the large number of mobile devices entering the market every year, analysing each and every device to allow appropriate simulation is still laborious and time consuming.

## Summary of Invention

According to the invention, there is therefore provided a method for profiling characteristics of a mobile device, the method comprising: transmitting test data to the mobile device over a mobile telecommunications

network for output by the mobile device; providing query data to a user interface defining queries for display by the user interface, which queries concern the expected output of the test data by the mobile device; receiving response data from the user interface defining a response to the query; and  
5 storing the response data in a database.

Also according to the present invention, there is provided an apparatus for profiling characteristics of a mobile device, the apparatus comprising: a network interface for transmitting test data to the mobile device over a mobile telecommunications network for output by the mobile device; a processor for  
10 providing query data to a user interface for display by the user interface, which query data defines a query concerning the expected output of the test data by the mobile device, and for receiving response data defining a response to the query from the user interface; and a database for storing the response data.

15 For example, content may be transmitted to a mobile device simultaneously to a question concerning output of the content being displayed on a computer screen. A user can look at the output of the content on the mobile device and answer the query displayed by the computer. The answer can then be stored in a database, either in a memory of the computer or at a  
20 remote server. Providing both test data to the mobile device and query data to a user interface allows a database of the different characteristics of the mobile device to be compiled efficiently. In particular, different characteristics of the mobile device can be tested systematically whilst ensuring that the test data is

transmitted to the mobile device over the network in the same way as when the mobile device is in normal use.

By transmitting successive items of content at the same time as displaying successive related queries, a database of all appropriate characteristics of the mobile device can be created. It is therefore preferred that successive items of test data are transmitted to the mobile device. In other words, it is preferred that items of test data are transmitted sequentially. Respective queries may concern respective items of test data. Items of test data may therefore be transmitted to the mobile device in an order corresponding with the order that the queries concerning the respective items of test data are provided for display.

The test data may be transmitted to the mobile device over a Global System for Mobile Communication (GSM) network, Interim Standard 95 (IS-95) network or 3<sup>rd</sup> Generation wireless format (3G) network for example. However, it is particularly preferred that the test data is transmitted to the mobile device using a dedicated data communications link, such as a General Packet Radio Service (GPRS) link. Test data may alternatively or additionally be transmitted to the mobile device using a data messaging service, such as a Short Messaging Service (SMS) facility or a Multimedia Messaging Service (MMS) facility.

Respective items of test data may test single or individual attributes of the mobile device. For example, at least some items of test data may test characteristics of the display of the mobile device, such as whether or not bold



text is supported. Similarly at least some items of test data may test communication characteristics of the mobile device, such as the maximum length of Uniform Resource Locator (URL) that is supported. The output of the test data by the mobile device might therefore be the display of the test data, the transmission of data in response to the test data or such like.

The response data may comprise affirmative or negative responses to respective queries. Alternatively, the response data may comprise values for respective queries. Most preferably, the response data comprises only affirmative responses, negative responses and values. This allows the response data for different mobile devices to be easily compared and more simply used for simulation of the mobile device.

The queries can be displayed on the computer screen of any appropriate computer. However, it is preferred that the testing be carried out remotely from the database. The processor might therefore provide the query data to the user interface of a remote computer terminal over a communications link. In particular, it is preferred that the communications link is a computer network such as the internet. The apparatus may therefore be a computer server.

Examples of the invention will now be described with reference to the accompanying drawings.

### Brief Description of the Drawings

Figure 1 is a block diagram illustrating a system for profiling characteristics of mobile devices according to the present invention;

5           Figure 2 is a flow chart illustrating operation of the system of figure 1;

Figure 3 is a display of some general data stored in profiling database of figure 1;

Figure 4 is a display of an input page for the profiling database of figure 1;

10           Figure 5 is a display of some data held in the profiling database of figure 1 for a particular mobile device ;

Figure 6 is a display of a start page for an assault course according to the invention;

Figure 7 is a display of a query page for the assault course of figure 5;

15           and

Figure 8 is a display of results data stored in the database of figure 1.

### Detailed Description

Referring to figure 1, a mobile device 1 is able to communicate in a  
20   mobile communication network 2. In this example, the mobile communication network 2 is a radio communications network such as Global System for Mobile communication (GSM) network. However, in other examples, the mobile communication network 2 could be any appropriate type

of communication network, including an Interim Standard 95 (IS-95) network or 3<sup>rd</sup> Generation wireless format (3G) network for example.

A profiling server 3 is arranged to communicate with the mobile device 1 over the mobile communication network 2. In order to achieve this, the profiling server 3 is connected to a Wireless Application Protocol (WAP) gateway 4 via a firewall 5. The WAP gateway 4 is operable to receive data intended for the mobile device 1 from the profiling server 3, typically as Wireless Mark-up Language (WML) encoded data or Hypertext Mark-Up Language (HTML) encoded data. The WAP gateway 4 can then transmit the data, as with WML encoded data, Short Messaging Service (SMS) messages or Multimedia Messaging Service (MMS) messages, to the infrastructure of the network 2 for transmission (e.g. radio transmission) to the mobile device 1. The WAP gateway 4 is also able pass on data received from the mobile device 1, such as WAP commands, Unique Resource Locators (URLs) and such like, to the profiling server 3. The firewall 5 operates in a conventional manner to filter communications between the profiling server 3 and the WAP gateway 4 and improve security.

The profiling server 3 is also arranged to communicate with a web browser 6. In this example, the profiling server 3 is a web server and the web browser 6 is installed on a remote personal computer. The profiling server 3 and web browser 6 communicate over a Virtual Private Network (VPN) 7. In another example, the profiling server 3 and web browser 6 communicate over an intranet or any other suitable computer network or communications link.

In yet another example, the profiling server 3 and web browser 6 are integrated in a single computer. The profiling server 3 is able to output data to the web browser 6 in the form of Hyper-Text Mark-Up Language (HTML) or Java<sup>TM</sup> encoded data.

5           The profiling server 3 is associated with a profiling database 8. The profiling database 8 is typically a dedicated memory, such as a hard-disk, in a server distinct from the profiling server 3. This improves the robustness of the system. However, in other examples, the profiling database 8 is stored in a memory, such as a hard-disk, integrated with the profiling server 3. The  
10       database 8 is compliant with an appropriate Structured Query Language (i.e. is SQL compliant) to allow the data stored in the database 8 to be stored and retrieved effectively. The database 8 includes a list of mobile devices 1 that have been or are to be tested. The database 8 also stores assault courses that are used to test the mobile devices 1, as described in more detail below, along  
15       with the results of the assault courses that have been completed by different mobile devices 1.

          When it is desired to test a mobile device 1, a user first ensures that details of the mobile device 1 to be tested are in the database 8. This is shown as step 101 in the flowchart of figure 2. In more detail, the web browser 6  
20       retrieves a user equipment administration page 9, as shown in figure 3, from the profiling server 3. The user equipment administration page 9 is an HTML page generated by the profiling server 3 from the database 8, listing general details of all the mobile devices 1 in the database 8, such as their names,

manufacturers' reference numbers and such like. More specifically, in this example the user equipment administration page 9 includes for each mobile device 1: the name of the mobile device 1; the type of browser installed on the mobile device 1; the data on which the mobile device 1 was or is to be made available; the region in which the mobile device is (to be made) available; and a note of whether or not launch of the mobile device is confirmed or rumoured. In addition, the user equipment administration page 9 includes hyperlinks to other HTML pages for each mobile device 1 that display more detailed general data for the mobile devices or initiate desired actions. For example, there is a full profile hyperlink 10 for each mobile device 1 on the user equipment administration page 9 to an HTML page (not shown) displaying all the recorded characteristics of the respective mobile device 1. For each mobile device 1 there is also a details hyperlink 11 to an HTML page that displays further general details for the respective mobile device 1; a modify hyperlink 12 that allows the general details of the respective mobile device 1 to be amended; a clone hyperlink 13 that allows the general details of the respective mobile device 1 to be copied to a new entry on the database 8; and a delete hyperlink 14 that allows the entry for the respective mobile device 1 to be erased. Finally, there is a profile hyperlink 16 for each mobile device 1 to a profiling sessions page 20, as shown in figure 5. Thus, once a user has located the appropriate mobile device 1 on the user equipment administration page 9 and reviewed the general details for the

device 1 as appropriate, the user can follow the profile hyperlink 16 to the profiling sessions page 20 to begin profiling the mobile device 1.

If the mobile device 1 to be tested is not listed in the database 8, the user can follow an add hyperlink 15 provided in the top right hand corner of the user equipment administration page 9. The add hyperlink 15 retrieves an add user equipment page 17, as shown in figure 4, from the profiling server 3. The add user equipment page 17 is a wizard or form that allows a user to enter general details for the new mobile device 1 using the user interface (not shown) of the web browser 6. In this example, the add user equipment page 17 allows the name of the mobile device 1, the browser it supports, the region in which it is to be made available, the date on which it was or is to be made available, whether or not the mobile device 1 is ready for profiling and whether or not launch of the mobile device is confirmed or just rumoured, along with any extra comments that may be appropriate. On the add user equipment page 17, an add hyperlink 18 causes the browser 6 to submit the entered details to the profiling server 3, which in turn stores the entered details in the database 8. In this example, there is also an add another hyperlink 19 that not only causes the browser 6 to submit the entered details to the profiling server 3, but also refreshes the add user equipment page 17 on the browser 6 to allow the user to enter the details of another mobile device 1 if desired. Once details for the mobile device 1 have been stored in the profiling database 8, the user can follow the profile hyperlink 16 to the profiling sessions page 20 to begin profiling the mobile device 1.

The profiling sessions page 20 lists details of any assault courses that have already been completed for the selected mobile device 1. In the example shown in figure 5, the completed assault courses for an Alcatel One-Touch 715 on which an UP.Browser 5.0.3 is installed are displayed. It can be seen that a CAC Picture IQ 1.1, a CAC Monitor Master 4.0, an \_EMS Module 1.0, an \_MMS Module 1.1 and an XHTML Hurdles 1.1 assault course have been completed for this mobile device 1. There is a modify hyperlink 21 for each completed assault course to an HTML page (not shown) that displays the results of the assault course and allows the results to be amended. An archive hyperlink 22 for each completed assault course allows the results of the assault course to be removed from the database 8 to an archive. A profile hyperlink 23 for each completed assault course allows the respective assault course to be repeated. However, it is most often desired to complete a new assault course which is achieved by following a new hyperlink 24 at the top right hand corner of the profiling sessions page 20. This causes a select assault course page (not shown) to be retrieved from the profiling server 3 by the browser 6.

The select assault course page contains hyperlinks to all appropriate assault courses for the mobile device 1. Different assault courses test different characteristics of the mobile device 1. For example, there might be separate assault courses for WAP services, SMS services and MMS services. When a user chooses to complete an assault course, an assault course start

page 25, as shown in figure 6, is retrieved from the profiling server 3 and displayed by the browser 6. This step is shown as step 102 in figure 2.

5 The assault course start page 25 includes a summary of the assault course details. In this example, it also prompts the user to connect the mobile device 1 to the profiling server 3 using the Uniform Resource Locator (URL) specified on the start page 25. Typically, a user is required to turn the mobile device 1 on, establish a connection with the network 2 which may be achieved automatically by the mobile device 1 or require the user to select a GPRS connection or such like. Finally, the user enters the URL specified on the  
10 start page 25 on the browser of the mobile device 1 to establish a connection with the profiling server 3. This is shown as step 103 in figure 2. The user then follows the next hyperlink link 8 in the bottom right hand corner of the start page 25 screen to start the assault course.

In response to the next hyperlink 8 being followed, the profiling  
15 server 3 outputs a query page 26, as shown in figure 7, to the web browser 6. This is shown as step 104 in figure 2. The query page 26 is a wizard or form that lists queries, referred to as "hurdles", concerning the output of test data by the mobile device 1. Each hurdle is displayed as a title bar 27, a question 28, notes 29 explaining the question where necessary, an answer  
20 input box 30 in which the answer to the question can be input via the user interface and a comment input box 31 in which additional comments can be input via the user interface if desired. At the same time as outputting the query page 26 for display, the profiling server 3 outputs test data related to the



hurdles to the mobile device 1. More specifically, the profiling server 3 outputs items of test data, such as a page of WML encoded data, an SMS message or an MMS message to the mobile device 1. This is shown as step 105 in figure 2. Each item of test data is related to a hurdle on the query page 26.

The profiling server 3 therefore outputs the items of test data to the mobile device in an order in which the associated hurdles appear on the query page 26. The user observes the output of the data item associated with the first hurdle on the mobile device 1 and answers the first hurdle question in the appropriate answer input box 30. The user then operates the mobile device 1 to output the data item associated with the next hurdle received from the profiling server 3. Typically, the user simply follows a next hyperlink on the display of the mobile device 1 to cause the mobile device 1 to output the next data item. In another example, the profiling server 3 may be adapted to push data to the mobile device 1 and output of data items on the mobile device 1 may be activated automatically or controlled by clicking links on the query page 26.

When a user has completed the answers to all of the hurdles on the query page 26, the user submits the page to the profiling server 3 by following a hyperlink (not shown) at the bottom of the query page 26. Further query pages 26 can then be sent to the web-browser 6 as desired until the assault course is completed. The profiling server 3 stores the answers to the hurdle questions in the profiling database 8. This is shown as step 106 in figure 2.

The results stored in the database can be reviewed by a user on the web-browser 6. In this example, when the assault course has been completed, a results page 32, as shown in figure 8, is output by the profiling server 3 to the web-browser 6. The results page 32 sets out the hurdle titles, answers and additional comments.

Different hurdles test different characteristics of the mobile device 1. One category of hurdles test whether or not a feature is supported. The answer to the query for such a hurdle is yes or no, i.e. affirmative or negative. The item of test data for such a hurdle isolates the feature to be tested, so that it is straightforward to identify whether or not the feature is supported. For example, the ability of the mobile device 1 to display a colour image is tested by transmitting a colour image as an item of test data and asking if a colour image is displayed as a query. Similarly, the ability of the mobile device 1 to display bold text is tested by transmitting two words of text, the second in bold, as an item of test data and asking if the second word is displayed in bold as a query. In another example, the ability of the mobile device 1 to play a ringtone is tested by transmitting the ringtone to the mobile device 1 (e.g. in an SMS message) and asking whether or not it is played by the mobile device in a query.

Another category of hurdles test dimensional limits to which features of the mobile device extend. The answer to the query for such a hurdle is a value. The items of test data for such a hurdle comprise data that incrementally increases in size so that the maximum supported size can be

identified. For example, an image can be transmitted that grows in size (or successive larger images can be transmitted). When the image no longer fits on the display screen of the mobile device 1, the largest successfully displayed image size can be recorded on the query page 26. In another  
5 example a page of WML encoded data can be transmitted that causes the mobile device to transmit a URL to the profiling server that recursively links back on itself and grows in length. When the mobile device 1 is no longer able to transmit the URL (e.g. no further URL is received at the WAP gateway 4 from the mobile device 1), the profiling server 3 can retrieve the  
10 length of the longest received URL and up-date the query page 26 with this information. Thus, the maximum length URL supported by the mobile device 1 can be recorded.

Another category of hurdles can test several attributes of the mobile device 1 at once. For example, a WML page containing several different  
15 characters can be transmitted to the mobile device 1 as test data. The query page 26 displays the same characters and a user identifies any characters that are not properly displayed by the mobile device 1. The user can then update the query page 26 with the code numbers of the characters not supported by the mobile device 1.

20 Yet another category of hurdles can test the communication attributes of the mobile device 1. For example, the mobile device 1 can be caused to retrieve dummy content from the profiling server 3 using WAP. The request for the content can be recorded by the profiling server and used to update the

query page 26. In particular, the header of the request can be recorded, as this is particularly useful information when simulating mobile devices.

Only an example of the invention is described above and appropriate modifications and variations will be evident to those skilled in the field. In particular, the above list of hurdles is illustrative rather than exhaustive.

Claims

1. A method for profiling characteristics of a mobile device, the method comprising:
  - 5 transmitting test data to the mobile device over a mobile communications network for output by the mobile device;  
providing query data to a user interface defining queries for display by the user interface, which queries concern the expected output of the test data by the mobile device;
  - 10 receiving response data from the user interface defining a response to the query; and  
storing the response data in a database.
2. The method of claim 1, wherein the test data is transmitted to the  
15 mobile device using a dedicated data communications link
3. The method of claim 1 or claim 2, wherein the test data is transmitted to the mobile device using a data messaging service.
- 20 4. The method of any one of the preceding claims, wherein the test data is transmitted to the mobile device substantially simultaneously to the query data being provided to the user interface.

5. The method of any one of the preceding claims, wherein respective queries concern respective items of test data.

6. The method of any one of the preceding claims, wherein items of test data are transmitted to the mobile device in an order corresponding with an order in which the queries concerning the respective items of test data are provided for display.

7. The method of any one of the preceding claims, wherein respective items of test data test individual attributes of the mobile device.

8. The method of any one of the preceding claims, wherein at least some items of test data test characteristics of the display of the mobile device.

9. The method of any one of the preceding claims, wherein output of at least some items of test data comprises display of the test data.

10. The method of any one of the preceding claims, wherein at least some of the items of test data test communication characteristics of the mobile device.

11. The method of any one of the preceding claims, wherein output of at least some items of test data comprises transmission of data over the mobile communications network.

5 12. The method of any one of the preceding claims, wherein the response data comprises affirmative or negative response to respective queries.

13. The method of any one of the preceding claims, wherein the response data comprises values for respective queries.

10

14. The method of any one of the preceding claims, wherein the response data comprises only affirmative responses, negative responses and values.

15 15. A method of profiling the characteristics of plural mobile devices by carrying out the method of any one of the preceding claims for each of mobile device.

16. Computer software adapted to carry out the method of any one of the preceding claims when processed by a computer.

20

17. An apparatus for profiling characteristics of a mobile device, the apparatus comprising:

a network interface for transmitting test data to the mobile device over a mobile communications network for output by the mobile device;

a processor for providing query data to a user interface for display by the user interface, which query data defines a query concerning the expected output of the test data by the mobile device, and for receiving response data defining a response to the query from the user interface;

5

and a database for storing the response data.

18. The apparatus of claim 17, wherein the network interface transmits the test data to the mobile device using a dedicated data communications link.

10

19. The apparatus of claim 17 or claim 18, wherein the network interface transmits the test data to the mobile device using a data messaging service.

20. The apparatus of any one of claims 17 to 19, wherein the network interface transmits the test data to the mobile device substantially simultaneously to the processor providing query data to the user interface.

15

21. The apparatus of any one of claims 17 to 20, wherein respective queries concern respective items of test data.

20

22. The apparatus of any one of claims 17 to 21, wherein the network interface transmits items of test data to the mobile device in an order



corresponding with an order in which the queries concerning the respective items of test data are provided for display.

23. The apparatus of any one of claims 17 to 22, wherein respective items  
5 of test data test individual attributes of the mobile device.

24. The apparatus of any one of claims 17 to 23, wherein at least some items of test data test characteristics of the display of the mobile device.

10 25. The apparatus of any one of claims 17 to 24, wherein output of at least some items of test data comprises display of the test data.

26. The apparatus of any one of claims 17 to 25, wherein at least some of the items of test data test communication characteristics of the mobile device.

15

27. The apparatus of any one of claim 17 to 26, wherein output of at least some items of test data comprises transmission of data over the mobile telecommunications network.

20 28. The apparatus of any one of claims 17 to 27, wherein the response data comprises affirmative or negative responses to respective queries.

29. The apparatus of any one of claims 17 to 28, wherein the response data comprises values for respective queries.

30. The apparatus of any one of claims 17 to 29, wherein the response data comprises only affirmative responses, negative responses and values.

31. The apparatus of any one of claims 17 to 30, wherein the processor provides the query data to the user interface of a remote computer terminal over a communications link.

10

32. A computer server comprising the apparatus of any one of claims 17 to 31.

33. A computer server for profiling the characteristics of a mobile device by providing a query page to a user interface at substantially the same time as transmitting test data to the mobile device over a mobile communications network.

15

34. A method of profiling the characteristics of a mobile device substantially as described with reference to any of the accompanying drawings.

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35. An apparatus for profiling the characteristics of a mobile device substantially as described with reference to any of the accompanying drawings.

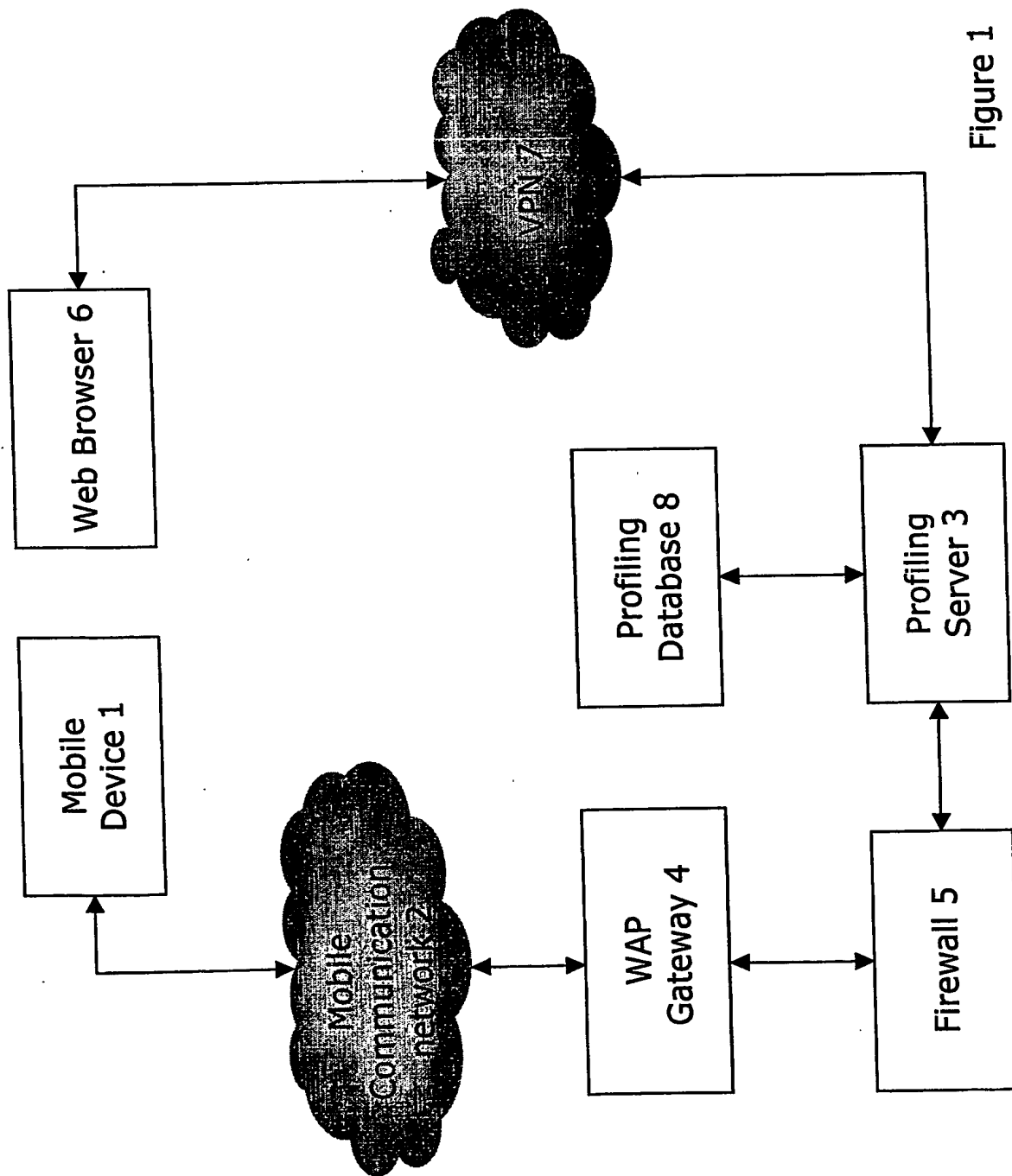


Figure 1

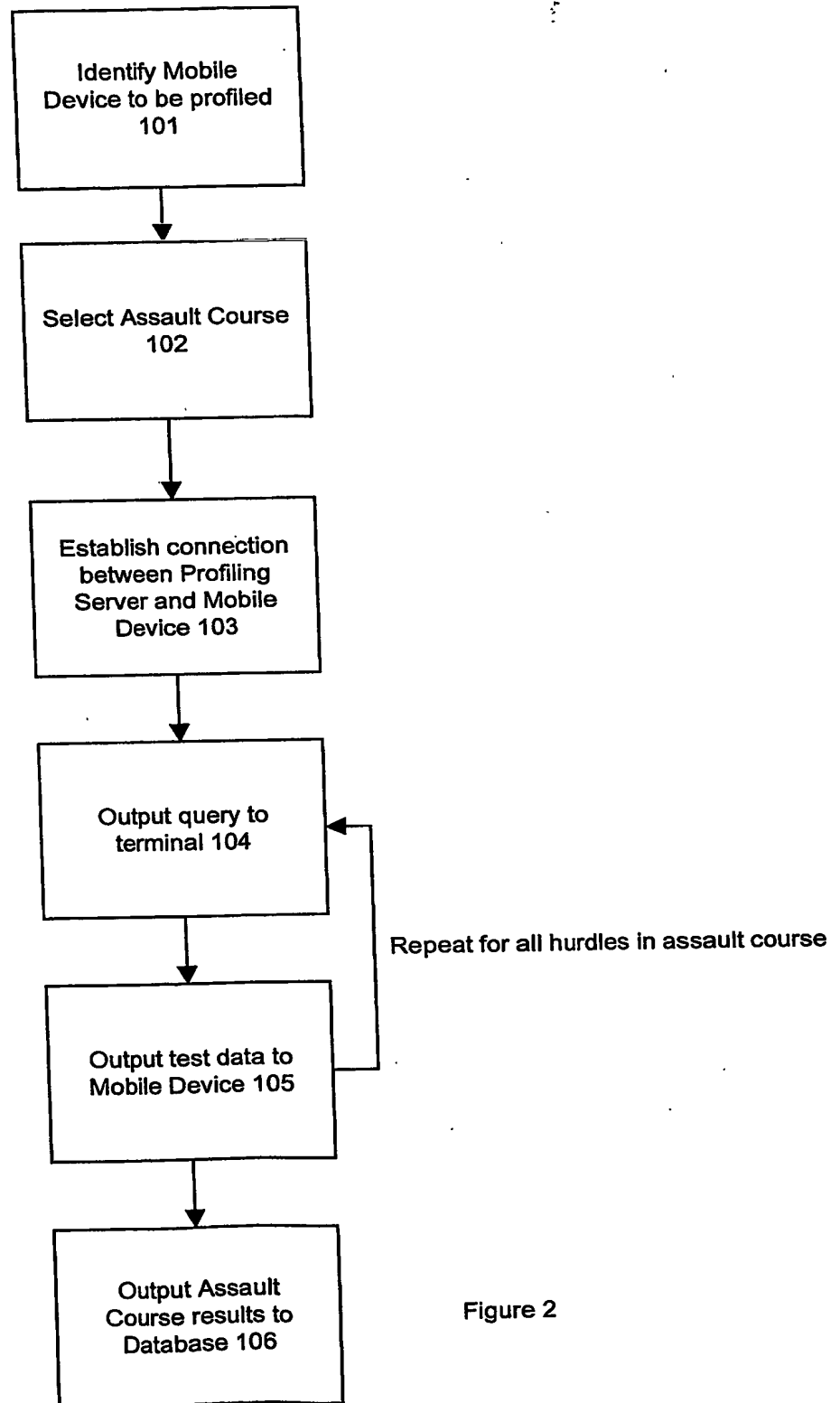


Figure 2

FIGURE 3

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FIGURE 4

The screenshot shows a web browser window with the title 'Add User Equipment (Device/Browser)'. The address bar shows a URL starting with 'http://10.1.1.108/...'. The main content area is a form with the following fields:

- Device:** NP2000
- Browser:** No Specific Browser (Version)
- Region:** America
- Data available:** 2015-01-01
- Ready for profiling:** True
- Status:** Purmour
- Recognition criteria:** (Leave blank when adding new devices)
- Simulator filename:** (Empty field)

At the bottom of the form, there is a section for 'pss Version: 3.0' and 'Administrator: andrew.brown@argogroup.com'. The Argogroup logo is also present. The browser window has a 'Done' button at the bottom left.

FIGURE 5

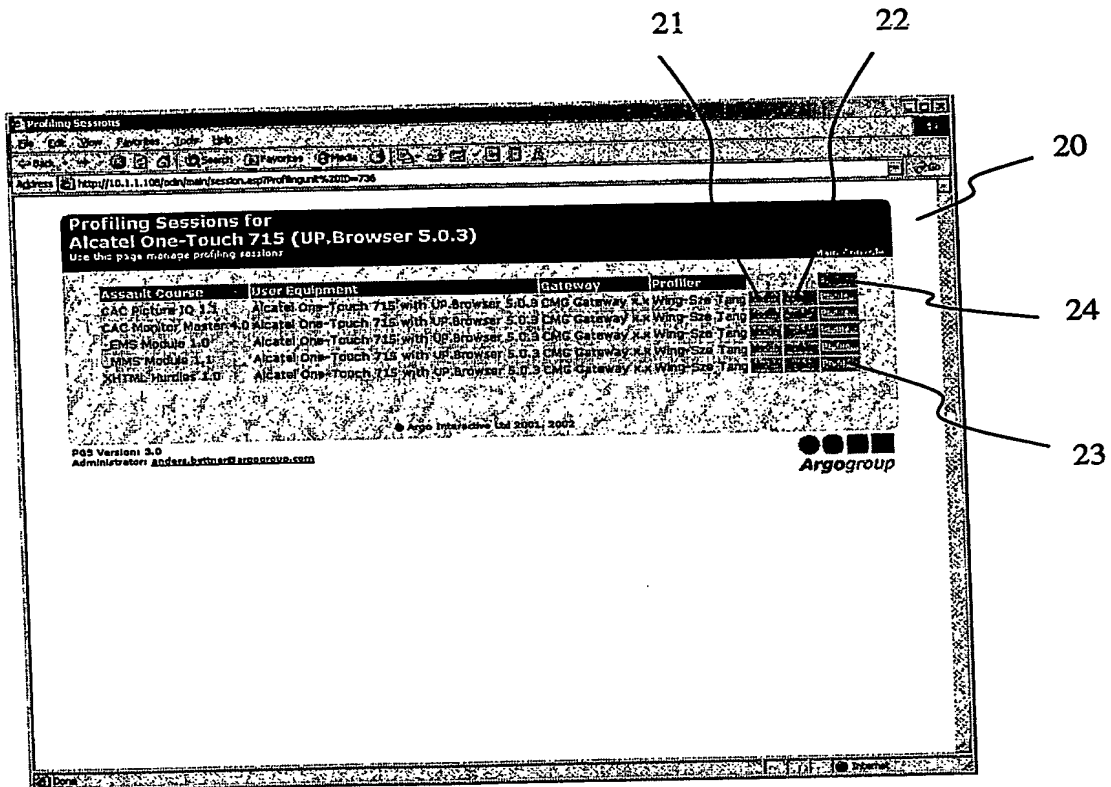
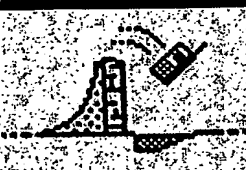




FIGURE 6

Assault Course

Start page for the CAC Monitor Master version 4.0 Input Wizard



Assault Course No.	9542
Session No.	2942
Assault Course	CAC Monitor Master version 4.0
Start URL	http://profiling.dcs.cpa.gov.uk/
User Equipment	Alcatel One Touch 715
Gateway	CWC Gateway Version 1.0
Profiler	Ying-Sze Tang

This is the beginning of the profiling session. Make sure you are using:

- the right device
- the right browser software
- the right gateway

Get the start link to the phone in an SMS  
Or point the device to the start URL above  
Choose Start and enter AC 95 in Session 2942

© Arco Information Ltd 2001, 2002

PGS Version 3.0  
Administrator: andrew.bottan@arconet.com

Done

25

FIGURE 7

Odin Profile Editor: WML Module version 1.0 - Session 4400

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print

Address: http://10.1.1.108/odin/mark/profile\_editor.asp?SessionID=4468

---

**Hurdle 2: BoldTag**

**Question**  
Does the equipment support the **b** (bold) tag?

**Notes**  
The card should read: Is the last word in bold. The word 'bold' should be formatted in bold font, i.e. thicker font than the rest of the text. If the word 'bold' is in another format, i.e. in italic, the answer should be 'No', with an explanation included.

**Answer**  
Pass ☐ Yes  
Fail ☐ No

**Comments on result**  
Last word appears in normal format

Page Top | Page Bottom

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**Hurdle 3: ItalicTag**

**Question**  
Is the italic tag (*i*) supported?

**Notes**  
The card should read: Does the last word appear in italic. The word 'italic' should be formatted in italic font. If the word 'italic' appears in another font other than italic, i.e. it is in bold, this answer 'No' should be used, with an explanation included.

**Answer**  
Pass ☐ Yes  
Fail ☐ No

**Comments on result**  
Last word appears in normal format

Page Top | Page Bottom

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**Hurdle 4: UnderlineTag**

**Question**  
Is the underline (u) tag supported?

**Notes**  
The card should read: Is the last word underlined. The word 'underlined' should be underlined.

**Answer**  
Pass ☐ Yes

Done Internet

FIGURE 8

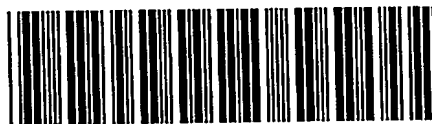
Profile view

Address: http://10.1.1.108/odm/mak/view\_profile.asp?ac=0&unk=047

EMSSendUserDefinedMelody	No	
EMSSendUserDefinedPicture	No	
EmTag	No	Last word appears in normal format
Fieldset	Yes	
GifAnimationFramesSupported	Yes	
GifAnimationSupported	Yes	
GifAnimationWithTransparencySupported	Yes	
GifColorAnimationFramesSupported	Yes	
GifColorAnimationSupported	Yes	
GifColorDepth	256	
GifColorSupported	Yes	
GifGrayscaleDepth	256	
GifGrayscaleSupported	Yes	
HasBackButton	Yes	
ImageAlignCenter	Yes	
ImageAlignLeft	Yes	
ImageAlignRight	Yes	
ImageAsLink	Yes	
ImageCapable	Yes	
ImageOnSameLineAsText	No	Linebreak between image and text
ImageTiling	No	Images appear vertically
InputEmptyOkFalse	Yes	
InputLabelWhileDisplay	No	First Name only visible when input field is selected
InputLabelWhileTextEnter	Yes	
InputOnSameLineAsText	No	Linebreak between input field and text
InputSingleDigitMinLen	Yes	
InputTabWidthSize	No	Input fields same size
InputWithFormatEmptyOkFalse	No	Can leave input field empty
InputWithFormatEmptyOkTrue	Yes	
InputWithLowercaseFormatting	No	Can also enter symbols and punctuation
InputWithMixedFormatting	No	Can also enter symbols and punctuation in place of characters (e.g. Mx)
InputWithPrefilledText	No	No "i" sign in address
InputWithUppercaseFormatting	No	Can also enter symbols and punctuation
ItalicTag	No	Last word appears in normal format
JpegColorDepth	None	
JpegGrayscaleDepth	None	
LinkOnTheSameLineAsText	No	Linebreak between link and text
MaxImageSizeGif	5050	Gif truncates if it is larger than 5050 bytes and does not display properly on screen
MaxImageSizeJpeg	0	

Done

**PCT/GB2004/003002**



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